

FIG. 2

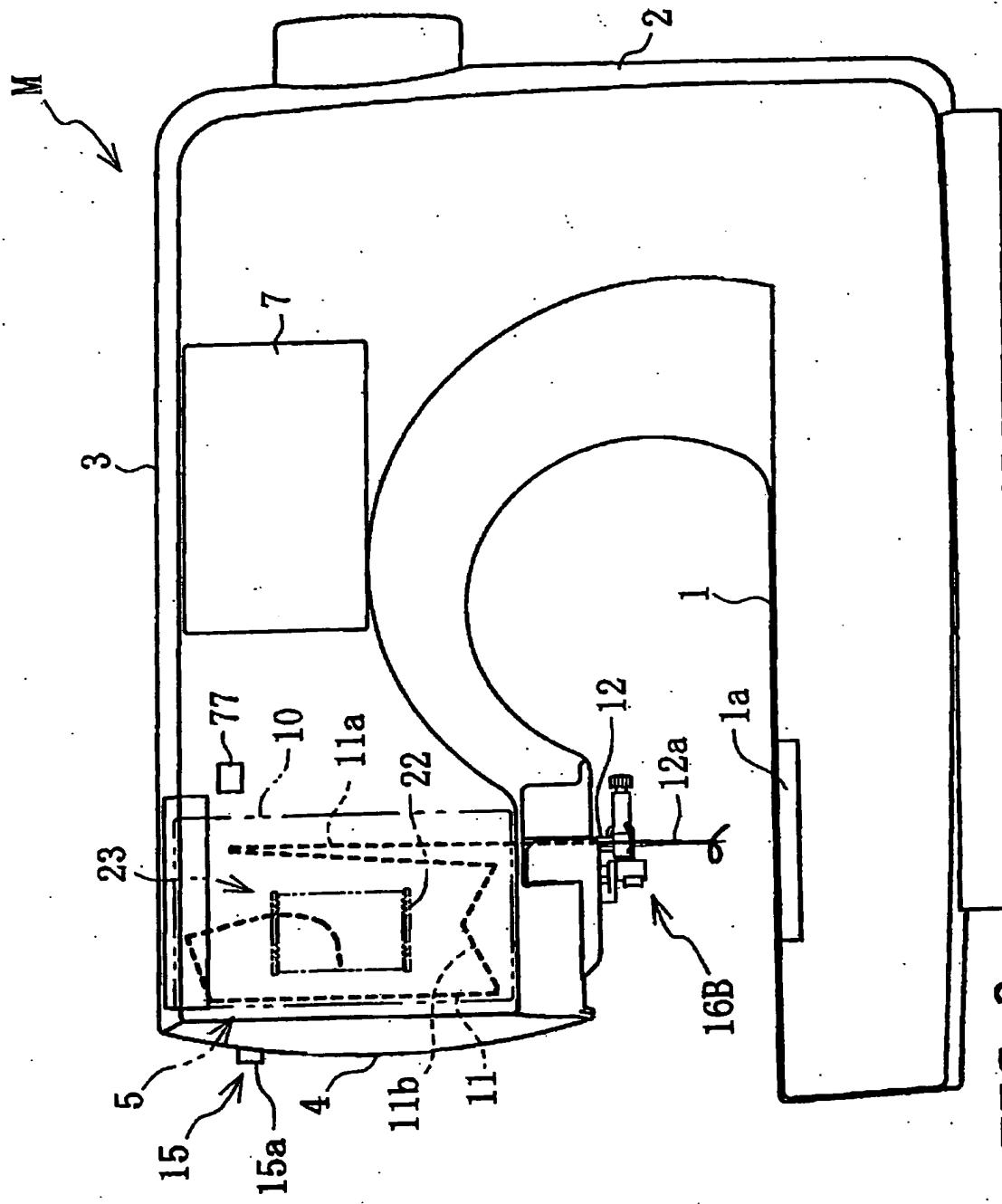


FIG. 3

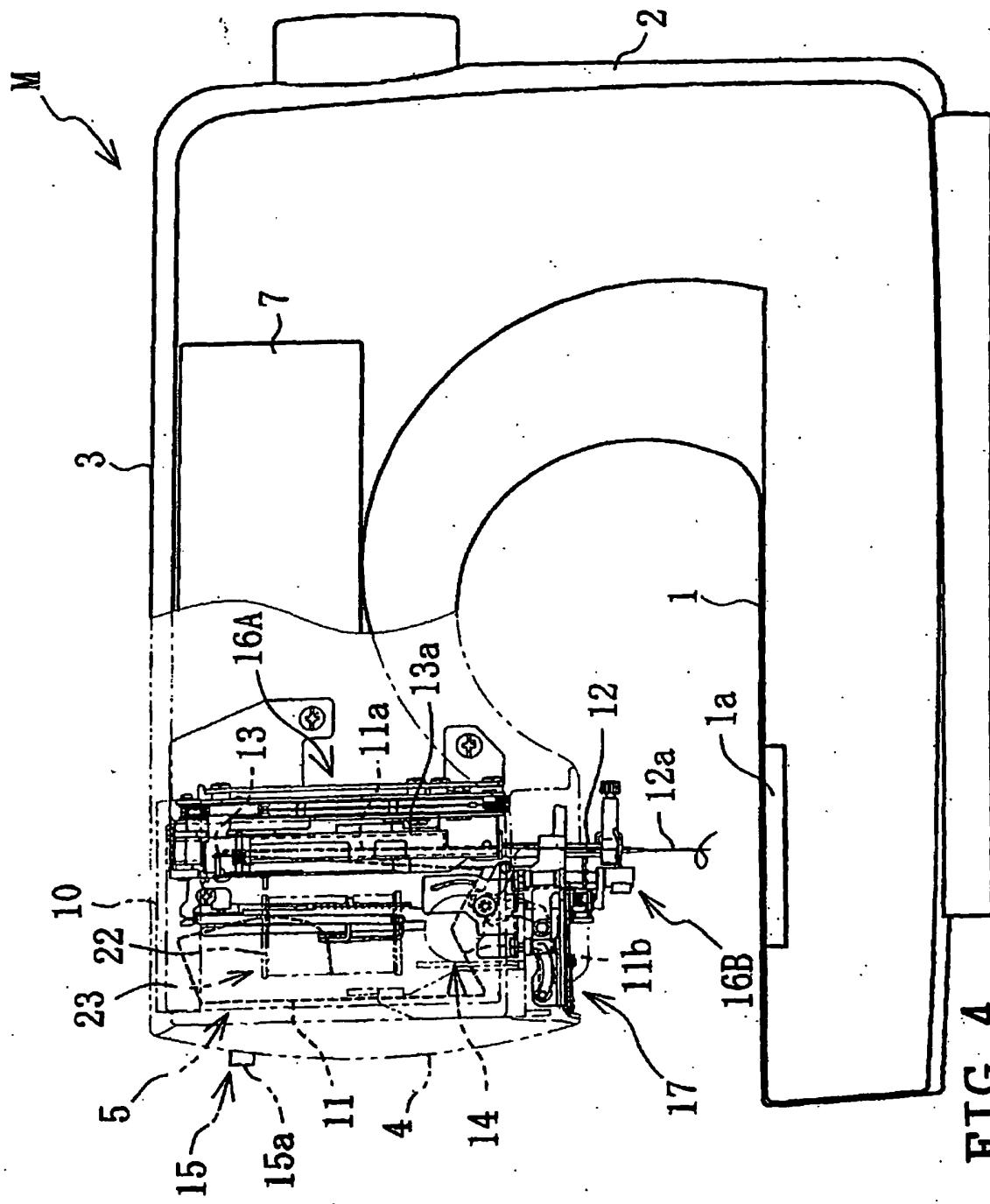


FIG. 4

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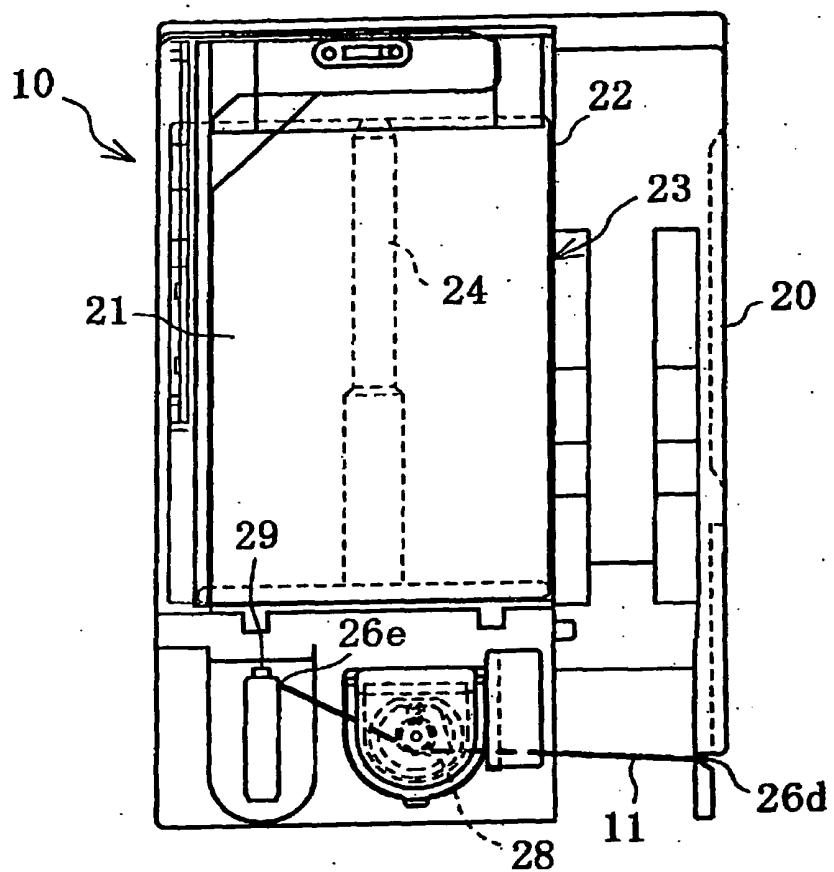


FIG. 5

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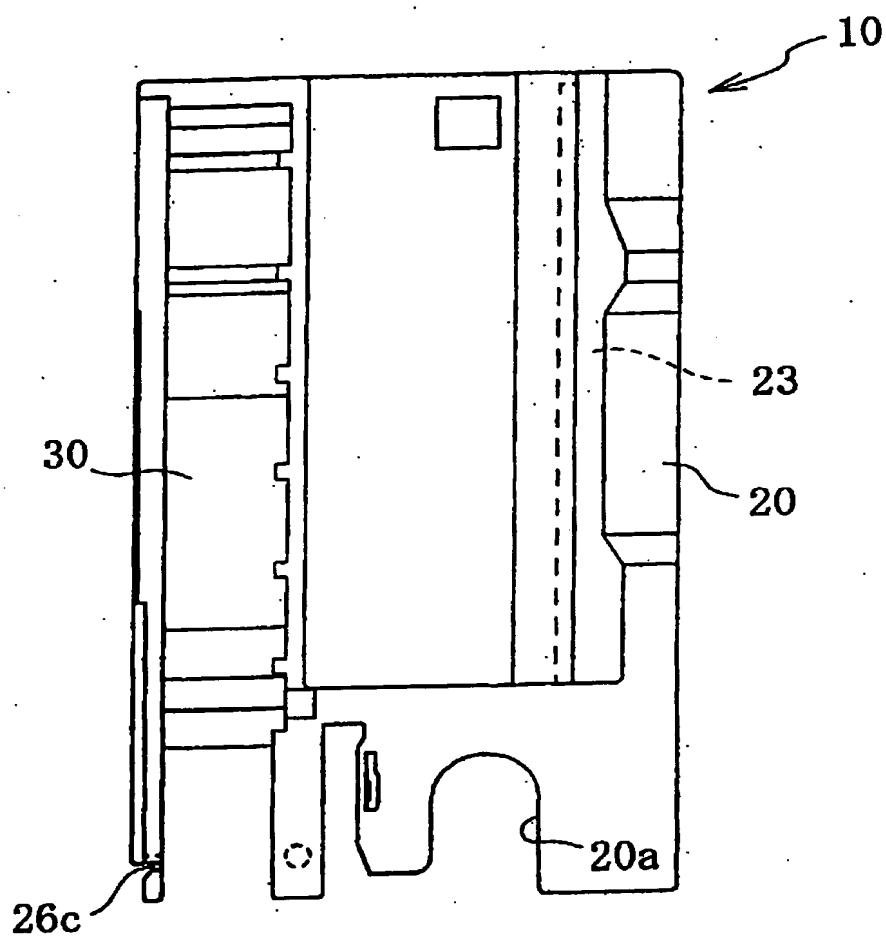


FIG. 6

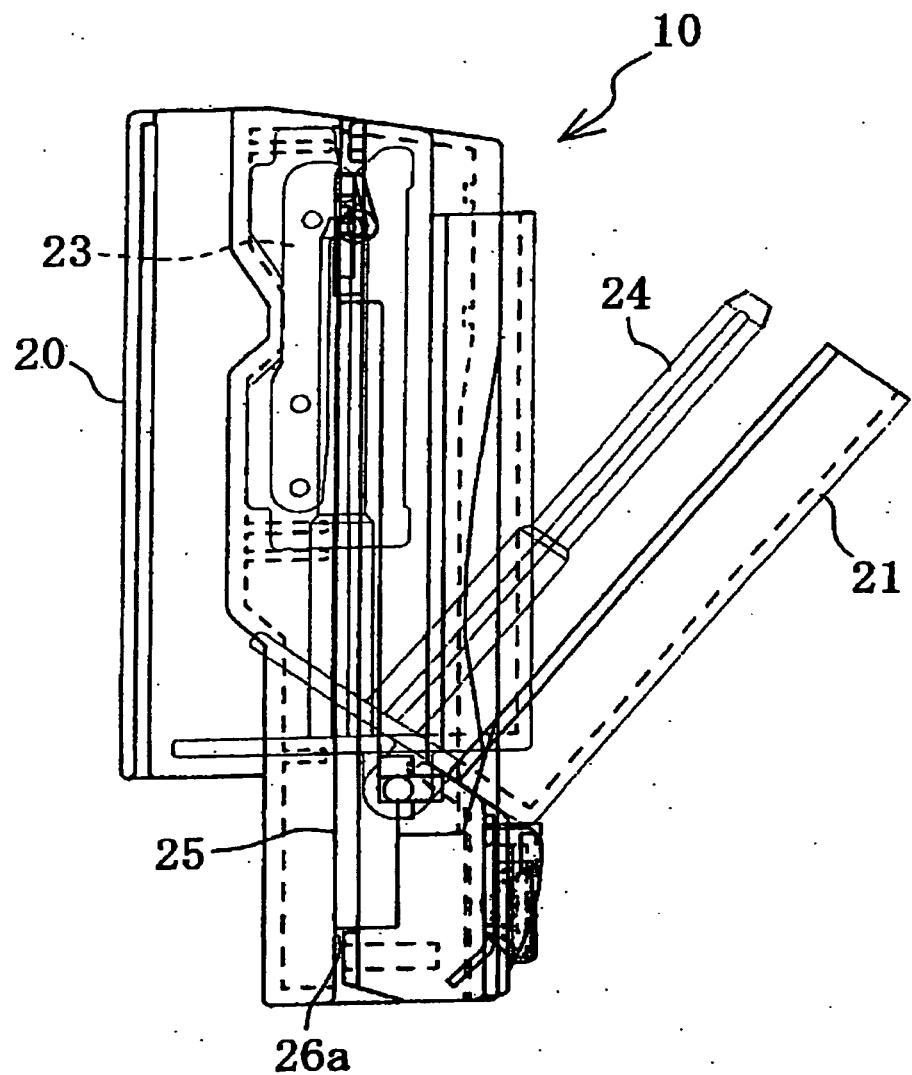


FIG. 7

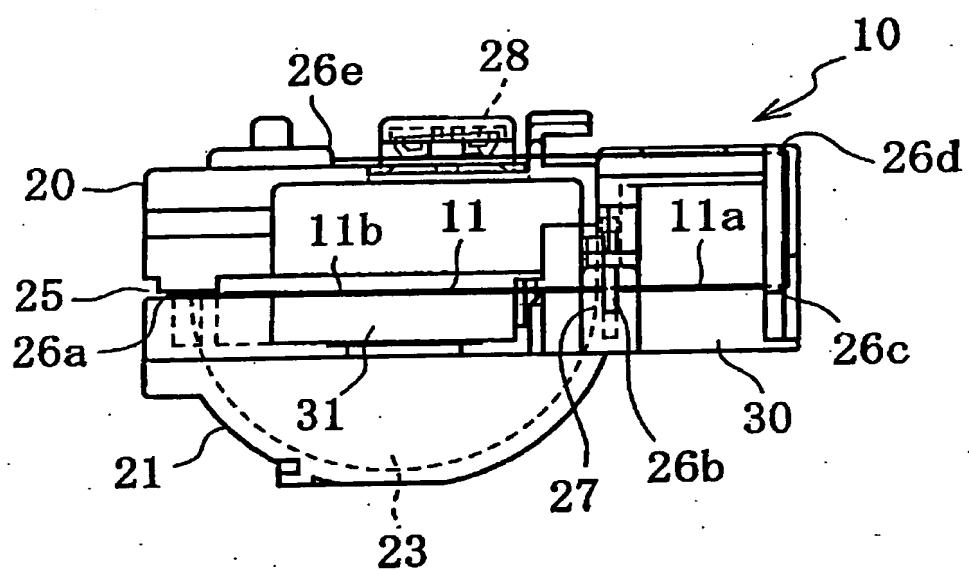


FIG. 8

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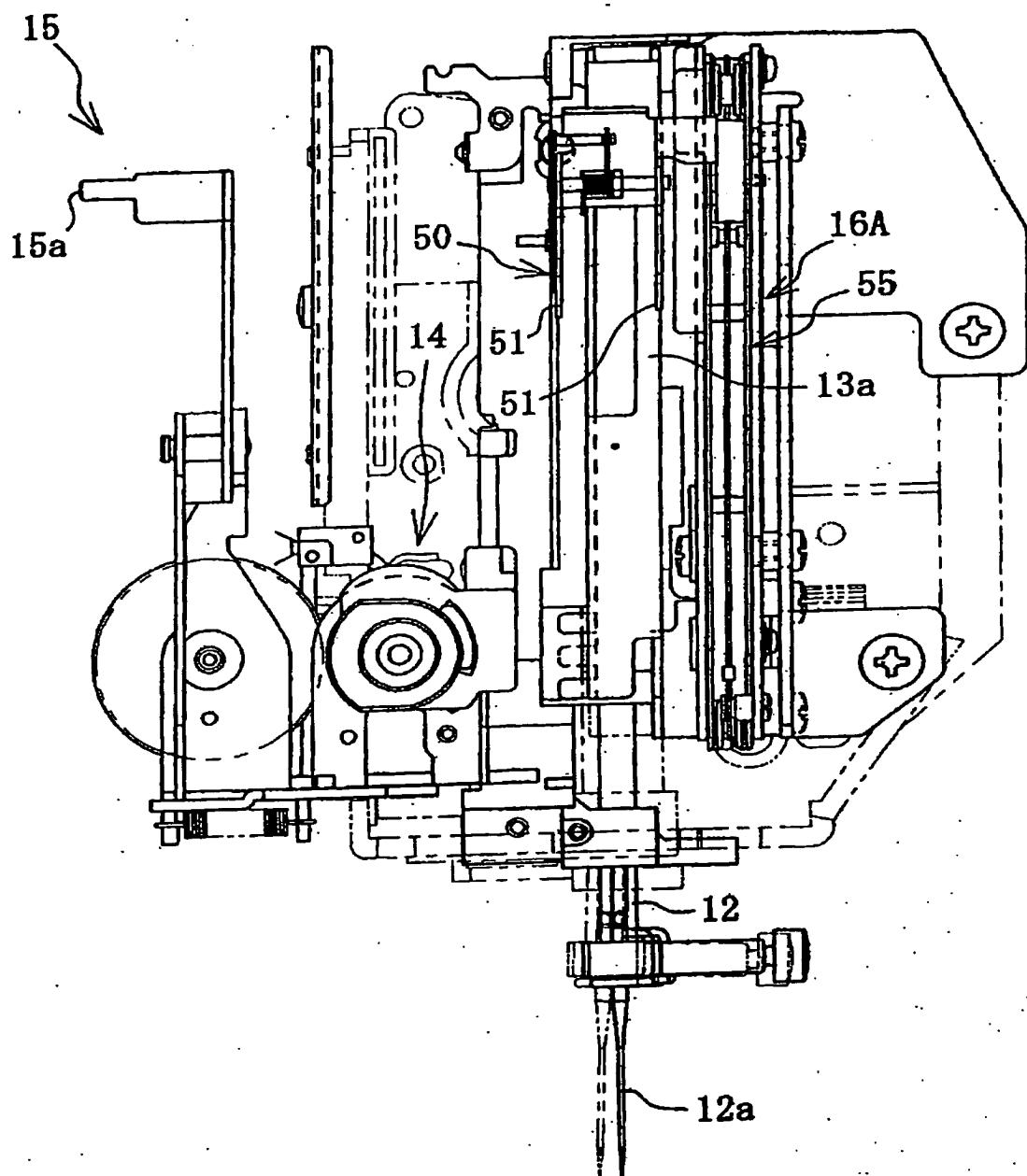


FIG. 9

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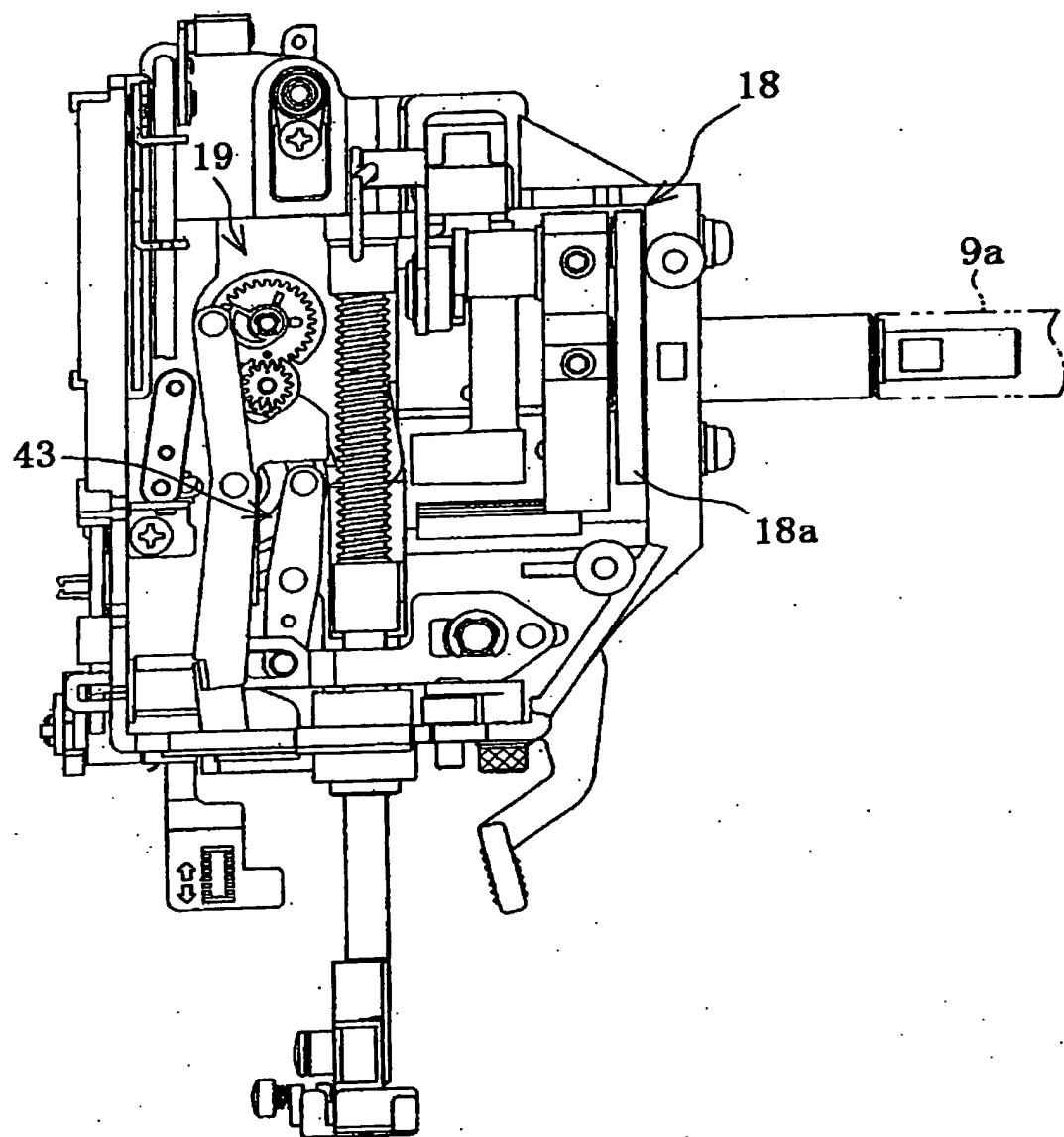


FIG. 10

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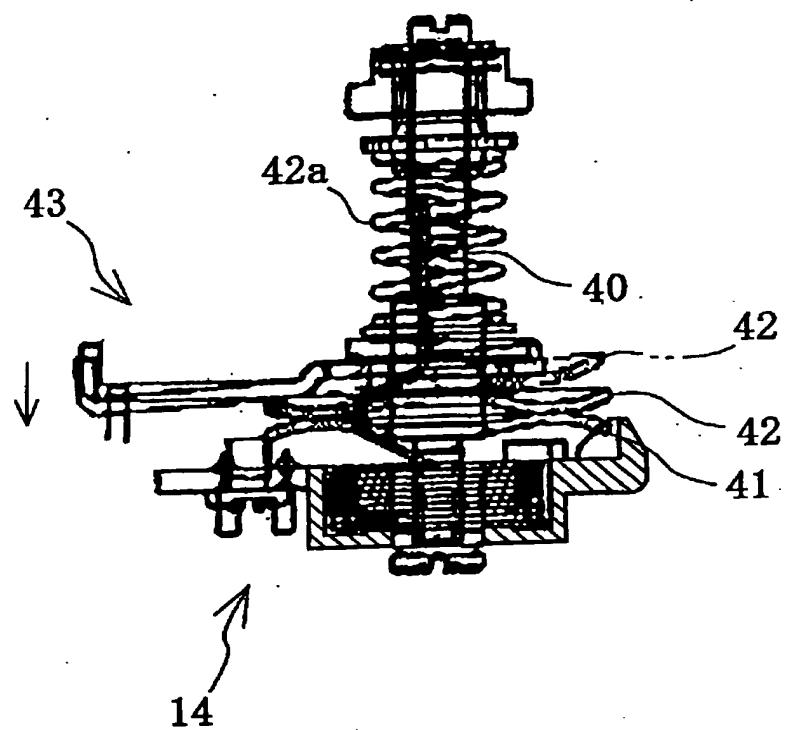


FIG. 11

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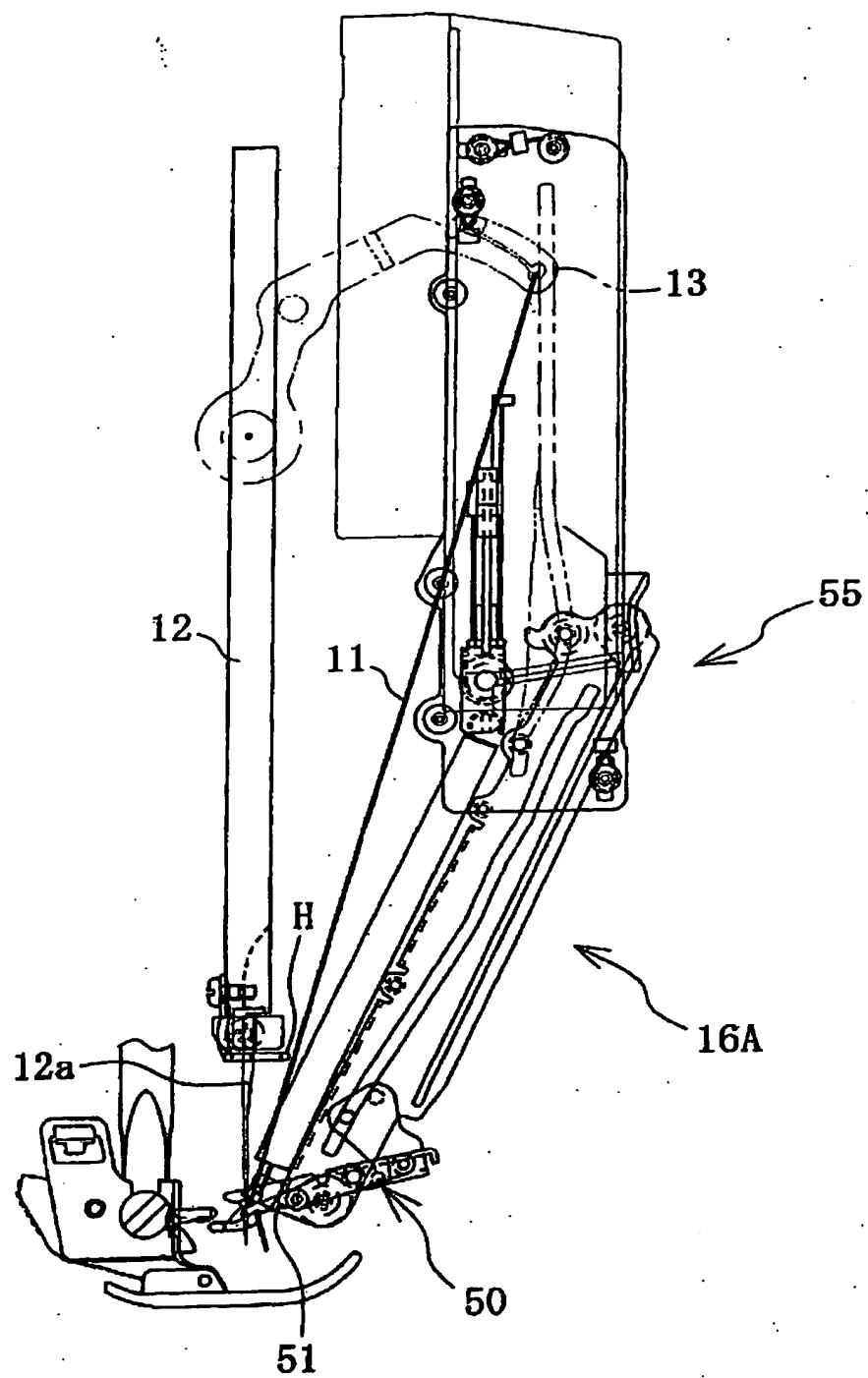


FIG. 12

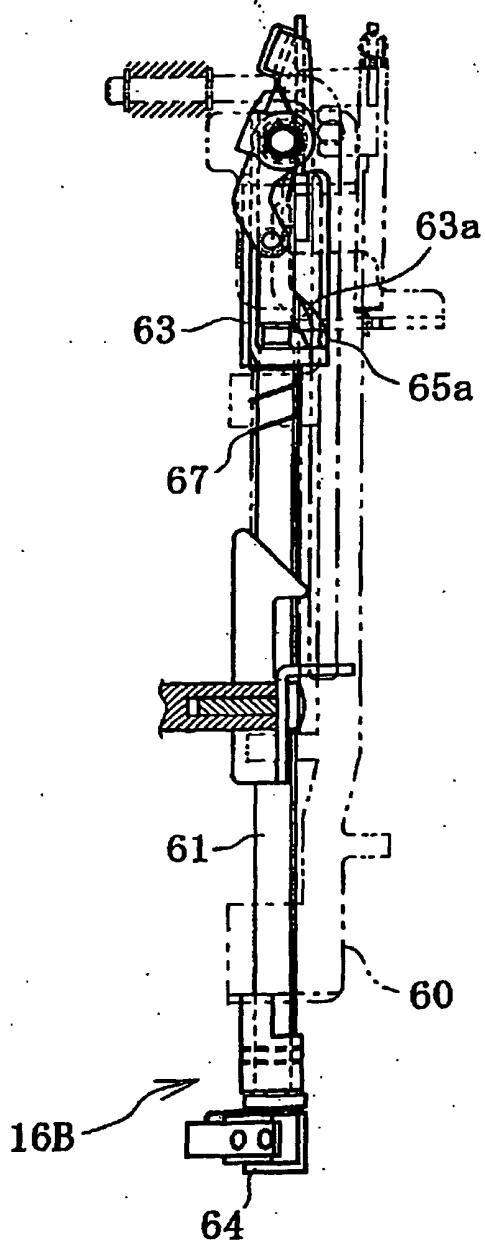


FIG. 13A

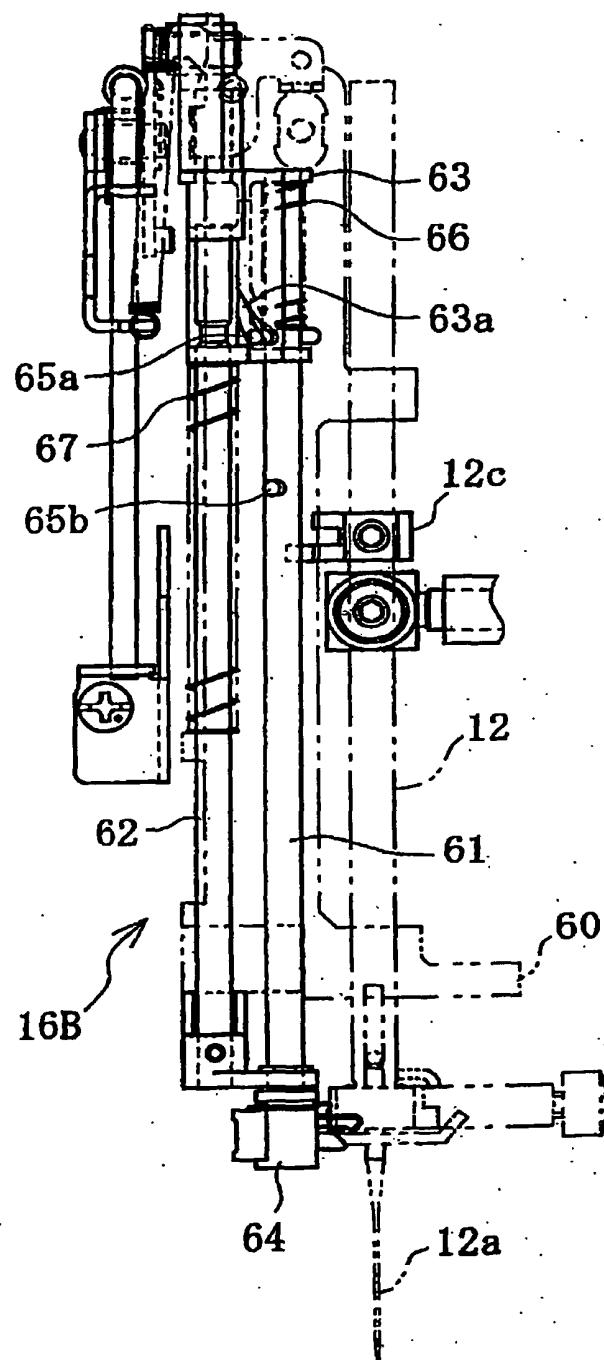
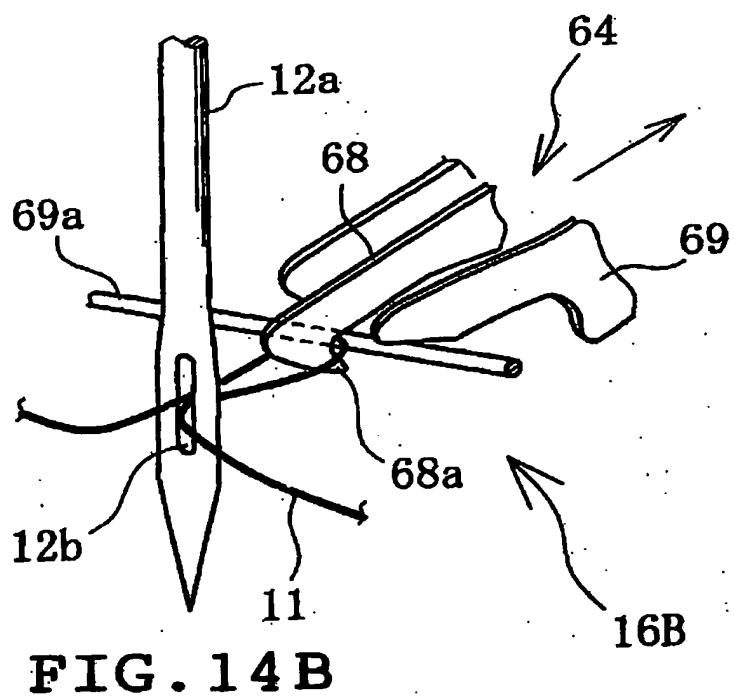
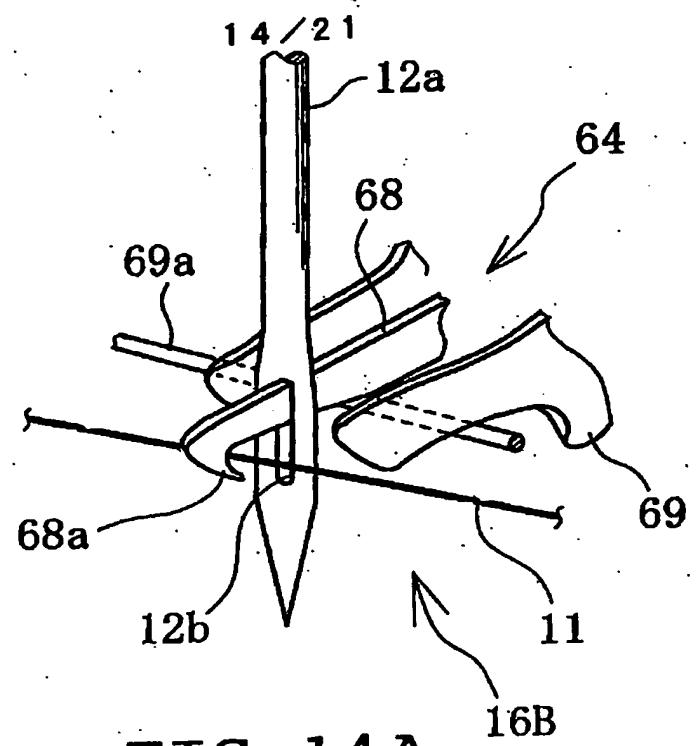


FIG. 13B



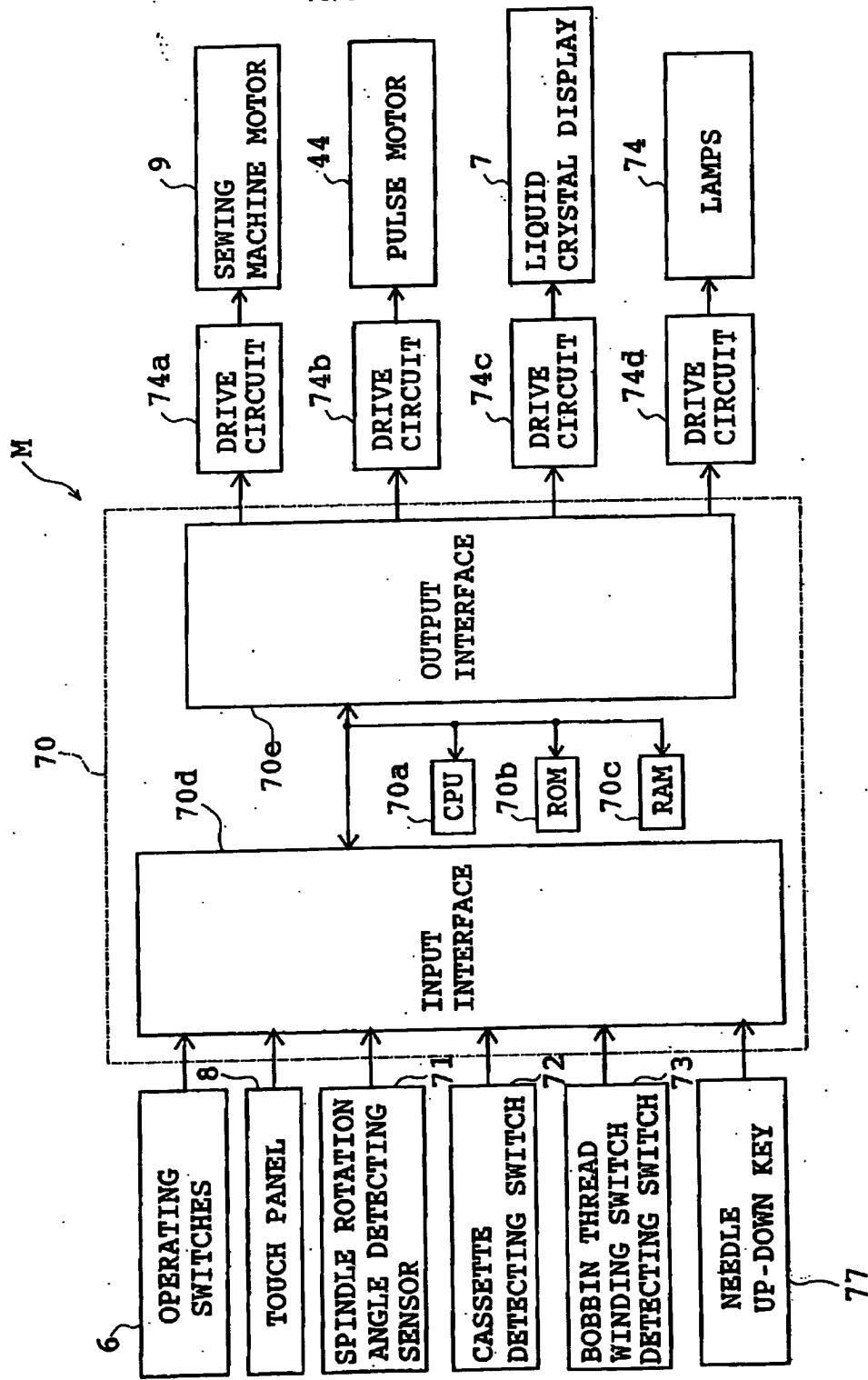


FIG. 15

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SEWING MACHINE CONTROL PROGRAM

- SEWING PROGRAM
- CASSETTE ATTACHMENT/
DETACHMENT CONTROL PROGRAM
- NEEDLE BAR POSITION CONTROL PROGRAM
- DISPLAY CONTROL PROGRAM

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•
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FIG. 16

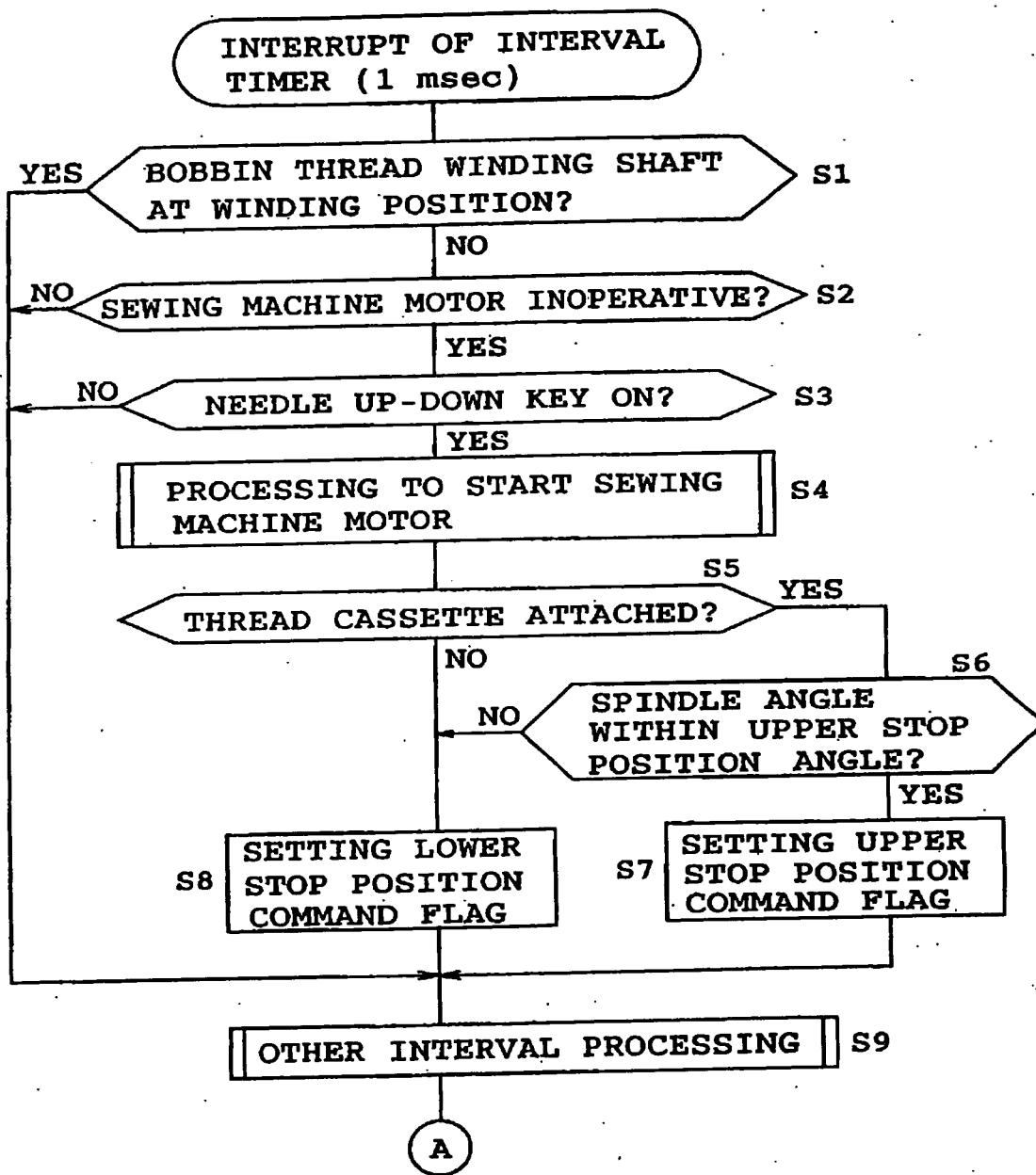


FIG. 17

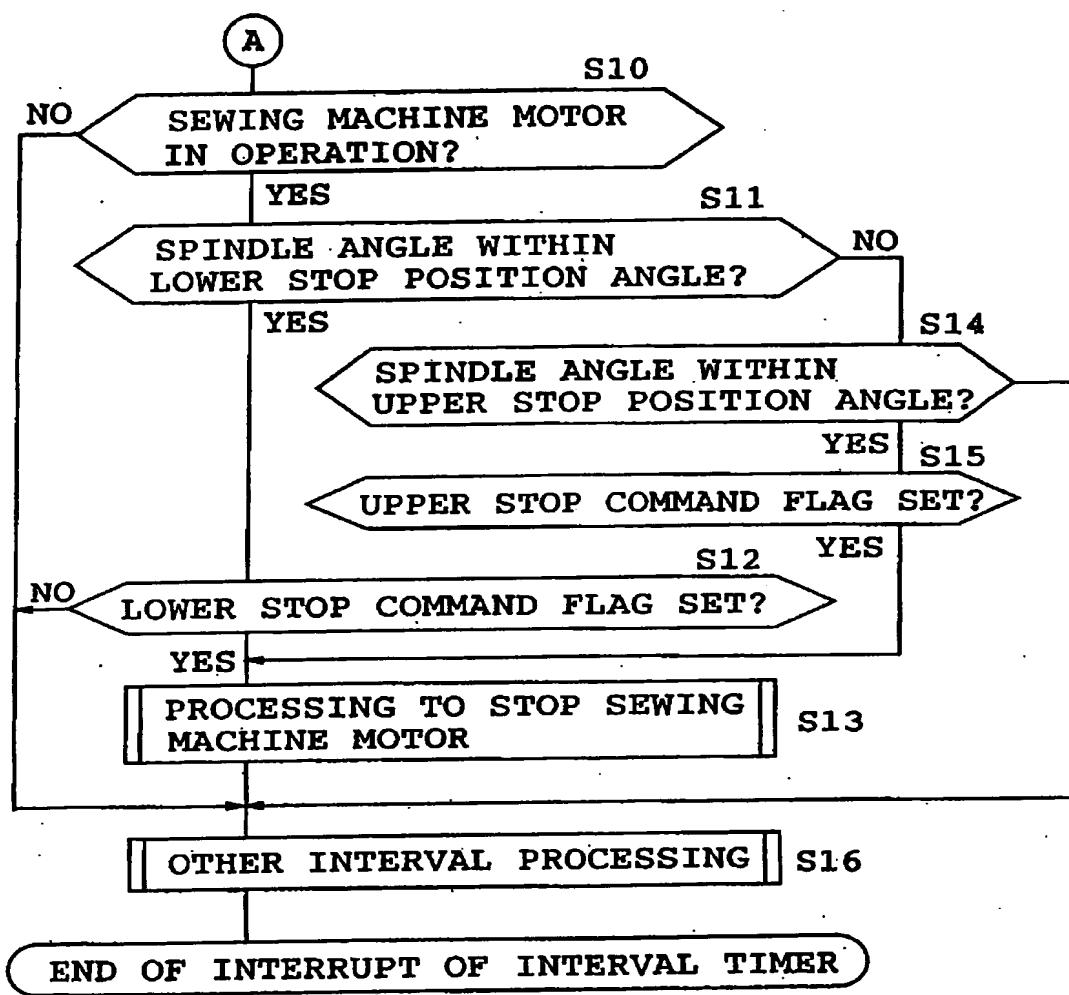


FIG. 18

SPINDLE ANGLE IN OPERATION OF NEEDLE UP-DOWN KEY		UPPER STOP POSITION	LOWER STOP POSITION	UPPER STOP POSITION	LOWER STOP POSITION
THREAD CASSETTE IN OPERATION	OF NEEDLE UP-DOWN KEY	UPPER STOP POSITION	LOWER STOP POSITION	UPPER STOP POSITION	UPPER STOP POSITION
		UNATTACHED	(LOWER STOP POSITION)	(LOWER STOP POSITION)	UPPER STOP POSITION
			UPPER STOP POSITION	UPPER STOP POSITION	UPPER STOP POSITION

FIG. 19

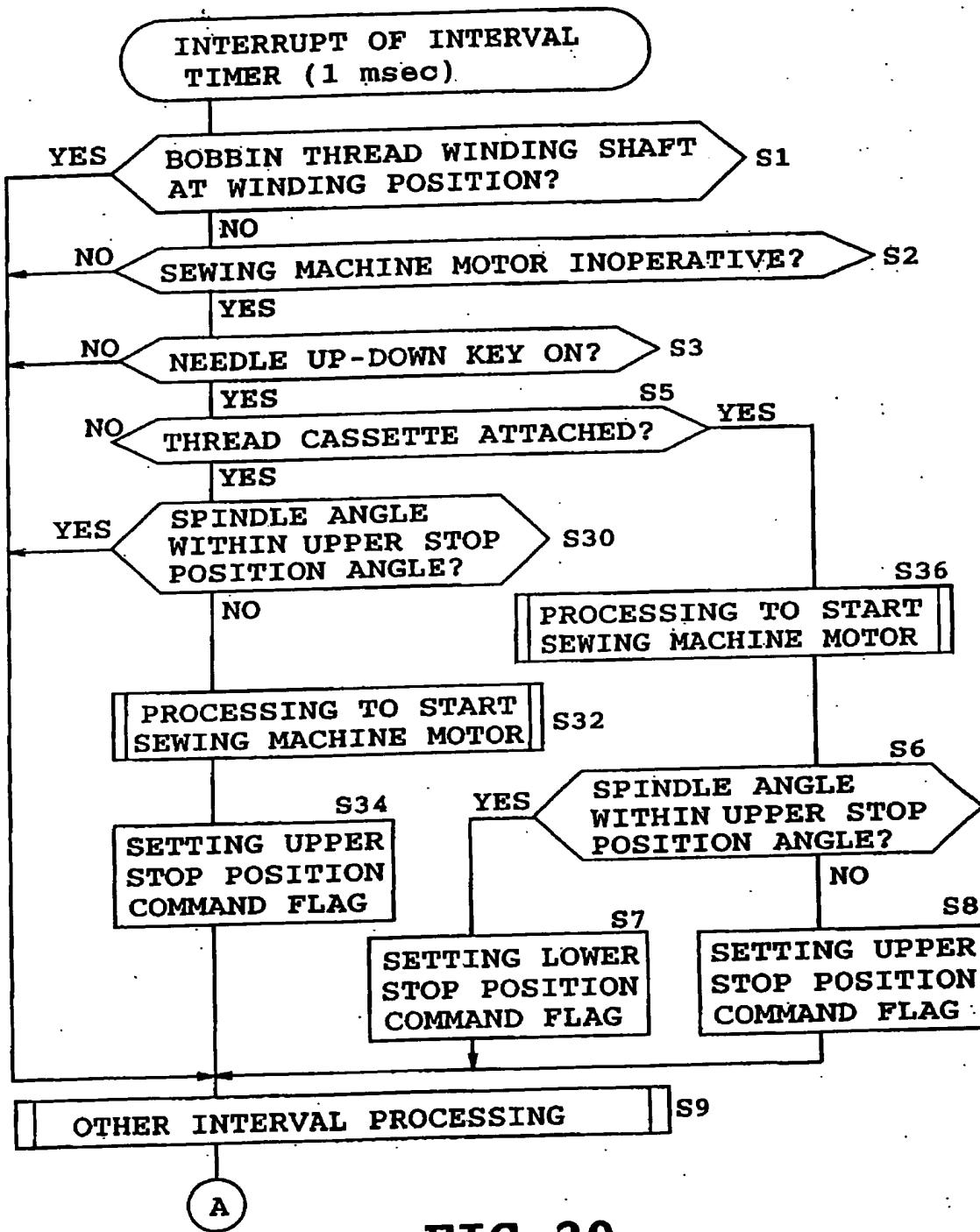


FIG. 20

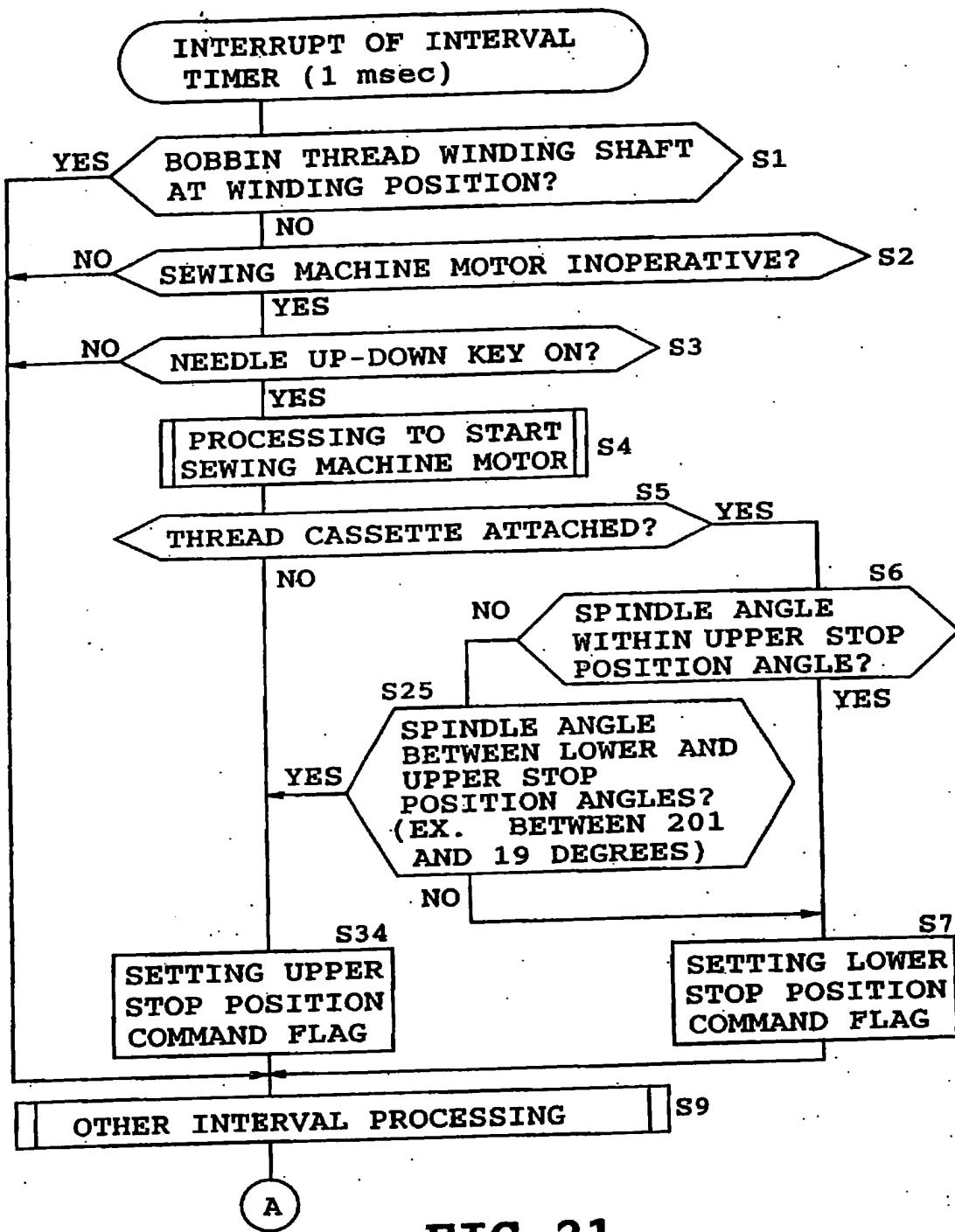


FIG. 21